High-Mu Triode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3	volts
Current	0.18	amp

Direct Interelectrode Capacitances: ←

	Without External Shield	*With External Shield°*	
Grid to plate	0.38	0.36	μμf
Grid to cathode, internal shield, and heater	4.4	4.4	μμf
Plate to cathode, internal shield, and heater	3	4	μμf
Grid to heater	0.28 max.	0.28 max.	μμf
Plate to cathode	0.24	0.2●	μμf
Cathode to grid	3.1	3.1●	μμf
Heater to cathode	2.5	2.5●	μμf

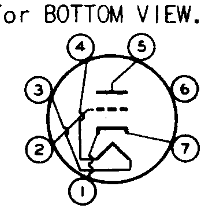
Characteristics, Class A_1 Amplifier: ←

Plate Voltage	200	volts
Grid Voltage	-1.2	volts
Amplification Factor	80	
Plate Resistance (Approx.)	8000	ohms
Transconductance	10500	μmhos
Plate Current	10	ma
Grid Voltage (Approx.) for transconductance (μmhos) = 500	-3.8	volts
Grid Voltage (Approx.) for transconductance (μmhos) = 100	-5.6	volts

Mechanical:

Operating Position	Any
Maximum Overall Length	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" ± 3/32"
Diameter	0.650" to 0.750"
Dimensional Outline	See *General Section*
Bulb	T5-1/2
Base	Small-Button Miniature 7-Pin (JEDEC No. E7-1)
Basing Designation for BOTTOM VIEW	7FP ←

Pin 1 - Cathode
Pin 2 - Grid
Pin 3 - Heater
Pin 4 - Heater



Pin 5 - Plate
Pin 6 - Internal Shield
Pin 7 - Cathode

← Indicates a change.

→ **AMPLIFIER — Class A₁**

Maximum Ratings, *Design-Center Values:*

PLATE VOLTAGE	250 max.	volts
GRID VOLTAGE:		
Negative-bias value	50 max.	volts
CATHODE CURRENT	20 max.	ma
PLATE DISSIPATION	2.2 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	100 max.	volts
Heater positive with respect to cathode	100 max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance	1 max.	megohm

○ With external shield JEDEC No.316 connected to cathode except as noted.
● With external shield JEDEC No.316 connected to ground.

→ Indicates a change.